Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A method of <u>operating a first client system to control</u> ~~controlling~~ a device <u>provided on a second client system</u> via the Internet,<u> the method</u> comprising ~~the steps of~~;

generating <u>a message comprising</u> a device instruction <u>and destination information;</u>

encoding the <u>message</u> ~~device instruction~~ using an Internet protocol;

transmitting the encoded <u>message</u> ~~device instruction~~ to a message broker <u>such that the message is placed in a first channel identified by the destination information,</u> and;

<u>retrieving returned device information from the second client system by:</u>

transmitting a message request to the message broker encoded using an Internet protocol <u>and identifying a second channel</u> ~~to receive device information received by the message broker,~~<u> and</u>

<u>receiving a response from the message broker comprising one of a time-out and a message comprising return device information.</u>

2. (original) A method according to claim 1 wherein the device instruction, message request and device information are encoded in an Internet protocol comprising HTTP.

3. (original) A method according to claim 1 wherein the device instruction is generated in a Peripheral Meta Language (PML).

4. (currently amended) A method according to claim 1 <u>further</u> comprising ~~the further step of~~ generating an output in response to the device information.

5. (canceled)

6. (original) A method according to claim 1 wherein the device instruction comprises device identification information.

7. (original) A remote control module operable to perform a method according to claim 1.

8. (currently amended) A method of operating a second client system having a device to communicate communicating instructions received via the Internet from a first client system to a the device, the method comprising the steps of :

transmitting a message request to a message broker encoded using an Internet protocol and identifying a first channel to receive a device instruction received by the message broker,

receiving a response from the message broker comprising one of a time-out and a message device instruction encoded using an Internet protocol comprising a device instruction in response to said request, and,

where the response comprises a message comprising a device instruction, transmitting the a device instruction to the device.

9. (currently amended) A method according to claim 8 comprising the steps of reading the device instruction to identify device identification information, and forwarding the device instruction to the device identified.

10. (canceled)

11. (original) A method according to claim 8 wherein at least one of the device instructions and the message containing the device information are encoded in an Internet protocol comprising HTTP.

12. (original) A device control module operable to perform a method according to claim 8.

13. (canceled)

14. (new) A method according to claim 8 further comprising the steps of;

receiving return device information,

generating a message comprising the return device information and destination information;

encoding the message using an Internet protocol, and

transmitting the encoded message to a message broker such that the message is placed in a second channel identified by the destination information.

15. (new) A system for controlling a device over the Internet, the system comprising a first client system, a second client system having the device, and a message broker,

the first client system being operable to

generate a message comprising a device instruction and destination information;

encode the message using an Internet protocol, and

transmit the message to a message broker, the message broker being operable to place the message in a first channel identified by the destination information,

the second client system being operable to transmit a message request to the message broker encoded using an Internet protocol identifying the first channel,

the message broker being operable to generate a response comprising one of a time-out if no message is present in the first channel and the message comprising a device instruction if the message is present in the first channel and send the response to the second client system,

the second client system being operable, where the response comprises a message comprising a device instruction, to transmit the device instruction to the device.

16. (new) A method according to claim 15 wherein the second client system is operable to:

receive return device information,

generate a message comprising the return device information and destination information;

encode the message using an Internet protocol, and

transmit the encoded message to the message broker such that the message is placed in a second channel identified by the destination information,

the first client system being operable to retrieve the return device information from the second client system by transmitting a message request to the message broker encoded using an Internet protocol identifying the second channel, and

the message broker being operable to generate a response comprising one of a time-out if no message is present in the second channel and the message comprising return device information if the message is present in the second channel and send the response to the first client system.